

CLAIMS:

- 1 1. An information handling system for providing directions to a wireless unit for
2 improving reception, comprising:
3 logic for determining a target location for improved communication for the
4 wireless unit based in part on information representing a recent position of the wireless
5 unit, wherein the target location is more likely to result in better reception and
6 transmission of wireless signals to and from a wireless access point.
- 1 2. The system of claim 1, further comprising a database for storing information
2 relating to locations and related data on wireless reception quality.
- 1 3. The system of claim 1, further comprising a global positioning system.
- 1 4. The system of claim 1 wherein the logic for determining an improved location
2 comprises a mapping device for defining the improved location.

- 1 5. The system of claim 2 wherein the database is dynamically updateable based
2 on reception strength input received from a plurality of wireless units.
- 1 6. The system of claim 1 wherein the logic for determining a target location
2 comprises an application specific integrated circuit.
- 1 7. The system of claim 1 wherein the logic for determining a target location
2 comprises software for execution by a processor.
- 1 8. The system of claim 1 further comprising an input/output interface for
2 presenting the user with information on the target location.
- 1 9. The system of claim 1 further comprising a transceiver for receiving
2 information representing the recent position of the wireless unit and for transmitting
3 directions to the wireless unit, the directions including information directing a user of
4 the wireless unit to the improved target location.

1 10. In a wireless network comprising access points and wireless clients, a method
2 for directing a wireless client to a target location for improved communication,
3 comprising:

4 determining where the wireless client was most recently located;
5 determining whether there exists a target location for improved communication
6 between the wireless client and the access point; and
7 providing information representing the target location and navigation
8 directions to the target location.

1 11. The method of claim 10 wherein the step of determining where the wireless
2 client was most recently located further comprises
3 receiving a global positioning system signal.

1 12. The method of claim 10 wherein the step of sending information to the
2 wireless client further comprises at least one step from among the steps of:

3 providing a map illustrating a route to the target location;

4 providing a text message comprising navigation instructions to the target
5 location;

6 providing an audio message comprising navigation instructions to the target
7 location; and

8 providing a video message comprising navigation instructions to the target
9 location.

- 1 13. The method of claim 10 further comprising
2 using a database comprising a history of communication quality at various
3 locations.
- 1 14. The method of claim 13 further comprising updating the database dynamically
2 as new data on communication quality are determined.
- 1 15. The method of claim 10 wherein the step of providing information comprises
2 providing information relating to target locations within a destination area provided by
3 the wireless client.
- 1 16. The method of claim 10 wherein the information provided to the wireless
2 client is based on data relating to the wireless client's most recent location, direction
3 and velocity.
- 1 17. The method of claim 10 wherein the step of determining the wireless client's
2 most recent location comprises using triangulation.

1 18. A computer readable medium comprising instructions for:
2 determining where a wireless client in a wireless network was most recently
3 located; and
4 determining whether there exists a target location for improved communication
5 between the wireless client and the network; and
6 providing directions to the target location when it is determined that there
7 exists a target location for improved communication.

1 19. The computer readable medium of claim 18 further comprising instructions for
2 receiving a global positioning system signal.

1 20. The computer readable medium of claim 19 wherein the instructions for
2 providing information further comprise at least one instruction from among the
3 instructions:

4 providing a map illustrating a route to the target location;

5 providing a text message comprising navigation instructions to the target
6 location;

7 providing an audio message comprising navigation instructions to the target
8 location; and

9 providing a video message comprising navigation instructions to the target
10 location.

1 21. The computer readable medium of claim 18 further comprising
2 using information on the most recent location, direction, and velocity of the
3 wireless client to project the target location for the wireless client where improved
4 communication is likely.

1 22. A wireless telecommunication unit comprising:
2 processor logic for determining a target location for the wireless
3 telecommunication unit based in part on information representing a recent location of
4 the wireless unit, wherein the target location is more likely to result in better reception
5 of wireless signals from a wireless access point; and a transceiver for receiving and
6 transmitting wireless signals.

1 23. The wireless telecommunication unit of claim 22 further comprising a global
2 positioning system.

1 24. The wireless telecommunication unit of claim 22 wherein the processor logic
2 comprises a programmable processor and program instructions.

1 25. The wireless telecommunication unit of claim 22 wherein the processor logic
2 comprises an application-specific integrated circuit.

1 26. A database storing information relating to locations and related data on
2 wireless reception quality at the locations.